

# **LARGE SCALE TUBULAR LINE CLEANING SYSTEM**

## **Abstract**

A large scale cleaning plug (L) adaptable to be placed within an interior passageway (10) of a tubular system (14) includes a frame structure (208) with a first and second end (202 and 204) supporting an outer skin member (200) for directing a fluid (F) through an interior passageway formed in the skeletal frame structure (208). A middle section (300) of the frame (208) has a generally frustoconical shaped bottom (302). A rigging (236) connected to the frame (208) controllably secures the frame structure (208) in desired positions. The frame's second end (204) supports at least one nozzle assembly (220) having at least one nozzle body (222) extending from a plate (226) preventing appreciable fluid flow therethrough and permitting a desired fluid flow through an exit opening (223) of the nozzle bodies (222).